Erratum: Behavior of Complex Knots in Single DNA Molecules [Phys. Rev. Lett. 91, 265506 (2003)]

Xiaoyan R. Bao, Heun Jin Lee, and Stephen R. Quake (Received 19 August 2005; published 31 October 2005)

DOI: 10.1103/PhysRevLett.95.199901

PACS numbers: 61.41.+e, 02.10.Kn, 87.15.-v, 99.10.Cd

The vertical axis of Fig. 1(c) was inadvertently mislabeled: it should have been offset by a factor of 10. The corrected figure appears below, and we note that this error does not affect any of the calculations or conclusions contained within the Letter.

Two minor details can also be clarified. First, the poly(ethylene glycol) solution used in the experiment had a viscosity of 8.26 ± 0.47 cP, measured by observing the Brownian motion of 1 μ m fluorescent beads. Second, the observed knot sizes were smaller than typical DNA fluctuations, so we expected knots to track the DNA contour during diffusion [1]. Therefore all measurements of diffusion constants were rescaled by the square of the relative extension (ratio of end-to-end distance to contour length) prior to averaging.

We thank Alexander Vologodskii for alerting us to the error in Fig. 1(c).

[1] T. Odijk, Macromolecules **26**, 6897 (1993).



FIG. 1. Subfigure (c) with corrected vertical scale.